



DAFTAR PUSTAKA

- Alatabey, W. A., 2016, Model Optimal Control of The Four Tank System, *International Journal of Systems Science and Applied Mathematics* 1(4), 30–41.
- Åström, K. J. dan Murray, R. M., 2021, *Feedback Systems: An Introduction for Scientists and Engineers*, Princeton University Press, New Jersey.
- Bazaraa, M. S., Sherali, H. D. dan Shetty, C. M., 2013, *Nonlinear Programming: Theory and Algorithms*, John Wiley & Sons, New Jersey.
- Bof, N., Carli, R. dan Schenato, L., 2018, Lyapunov Theory for Discrete Time Systems, *arXiv:1809.05289*.
- Boyd, S., Boyd, S. P. dan Vandenberghe, L., 2004, *Convex Optimization*, Cambridge University Press, United Kingdom.
- Christofides, P. D., Liu, J. dan De La Pena, D. M., 2011, *Networked and Distributed Predictive Control: Methods and Nonlinear Process Network Applications*, Springer Science & Business Media, New York.
- Christofides, P. D., Scattolini, R., de la Pena, D. M. dan Liu, J., 2012, Distributed Model Predictive Control: A Tutorial Review, *Proc. Chem. Process Control* 8, 21-41.
- Doan, M. D., Keviczky, T. dan De Schutter, B., 2010, An Improved Distributed Version of Han's Method for Distributed MPC of Canal Systems, *IFAC Proceedings Volumes* 43(8), 148–153.
- Farina, M., Zhang, X. dan Scattolini, R., 2017, A Hierarchical MPC Scheme for Interconnected Systems, *IFAC-PapersOnLine* 50(1), 12021–12026.
- Farina, M., Zhang, X. dan Scattolini, R., 2018, A Hierarchical Multi-Rate MPC Scheme for Interconnected Systems, *Automatica* 90, 38–46.



Fitriana, V., Salmah dan Suparwanto, A., 2022, A Sequentially Updated Distributed Receding Horizon Control Scheme with Application to Irrigation Canal Systems., *IAENG International Journal of Applied Mathematics* 52(1), 201–206.

Fitriana, V., Salmah dan Suparwanto, A., 2023, A Cooperative Game Approach to Synthesizing A Sequential Distributed Model Predictive Controller, *International Journal of Dynamics and Control* 11, 2514–2522.

Fletcher, R., 2000, *Practical Methods of Optimization*, John Wiley & Sons, New York.

Guo, F., Wen, C., Mao, J., Li, G. dan Song, Y.-D., 2017, A Distributed Hierarchical Algorithm for Multi-Cluster Constrained Optimization, *Automatica* 77, 230–238.

Hespanha, J. P., 2018, *Linear Systems Theory*, Princeton University Press, New Jersey.

Jiang, Z.-P. dan Wang, Y., 2001, Input-to-State Stability for Discrete-Time Nonlinear Systems, *Automatica* 37(6), 857–869.

Jilg, M. dan Stursberg, O., 2013, Hierarchical Distributed Control for Interconnected Systems, *IFAC Proceedings Volumes* 46(13), 419–425.

Johansson, K. H., 2000, The Quadruple-Tank Process: A Multivariable Laboratory Process with An Adjustable Zero, *IEEE Transactions on Control Systems Technology* 8(3), 456–465.

Kerrigan, E., 2003, Invariant Set Toolbox for MATLAB, <http://www-control.eng.cam.ac.uk/eck21/matlab/invsetbox/index.html>, diakses 02 Maret 2020.

Khalil, H. K., 2002, *Nonlinear Systems*, Macmillan Publishing Company, New York.



- Koeln, J. P. dan Alleyne, A. G., 2018, Robust Hierarchical Model Predictive Control of Graph-Based Power Flow Systems, *Automatica* 96, 127–133.
- Koeln, J. P. dan Hencey, B. M., 2019, Constrained Hierarchical MPC via Zonotopic Waysets, in 2019 American Control Conference (ACC), IEEE, 4237–4244.
- Koeln, J., Raghuraman, V. dan Hencey, B., 2020, Vertical Hierarchical MPC for Constrained Linear Systems, *Automatica* 113, 108817.
- Lars, G. dan Jürgen, P., 2011, *Nonlinear Model Predictive Control Theory and Algorithms*, Springer, New York.
- Liberzon, D., 2003, *Switching in Systems and Control*, Birkhäuser, Boston.
- Liu, J., Chen, X., Muñoz de la Peña, D. dan Christofides, P. D., 2010, Sequential and Iterative Architectures for Distributed Model Predictive Control of Nonlinear Process Systems, *AICHE Journal* 56(8), 2137–2149.
- Löfberg, J., 2003, Minimax Approaches to Robust Model Predictive Control, PhD thesis, Department of Electrical Engineering, Linköping University.
- Maciejowski, J. M., 2002, *Predictive Control with Constraints*, Pearson Education, London.
- Mayne, D. Q., Rawlings, J. B., Rao, C. V. dan Scokaert, P. O., 2000, Constrained Model Predictive Control: Stability and Optimality, *Automatica* 36(6), 789–814.
- Nash, J., 1953, Two-Person Cooperative Games, *Econometrica: Journal of the Econometric Society*, 128–140.
- Negenborn, R. R. dan De Schutter, B., 2008, A Distributed Model Predictive Control Approach for The Control of Irrigation Canals, in 2008 First International Conference on Infrastructure Systems and Services: Building Networks for A Brighter Future (INFRA), IEEE, 1–6.
- Negenborn, R. R., De Schutter, B. dan Hellendoorn, J., 2008, Multi-Agent Model Predictive Control for Transportation Networks: Serial Versus Parallel Schemes, *Engineering Applications of Artificial Intelligence* 21(3), 353–366.



- Ogata, K., 1995, *Discrete-Time Control Systems*, Prentice-Hall, Inc., New Jersey.
- Olsder, G. J. dan van der Woude, J. W., 2005, *Mathematical Systems Theory*, Vol. 4, Delft University Press, Netherlands.
- Petzke, F., Farina, M. dan Streif, S., 2018, A Multirate Hierarchical MPC Scheme for Ensemble Systems, *in* Proceeding of the 2018 IEEE Conference on Decision and Control (CDC), IEEE, 5874–5879.
- Picasso, B., Zhang, X. dan Scattolini, R., 2016, Hierarchical Model Predictive Control of Independent Systems with Joint Constraints, *Automatica* 74, 99–106.
- Raghuraman, V. dan Koeln, J. P., 2022, Hierarchical MPC for Coupled Subsystems Using Adjustable Tubes, *arXiv:2202.11228*.
- Raghuraman, V., Renganathan, V., Summers, T. H. dan Koeln, J. P., 2020, Hierarchical MPC with Coordinating Terminal Costs, *in* 2020 American Control Conference (ACC), IEEE, 4126–4133.
- Rakovic, S. V. dan Mayne, D. Q., 2005, Set Robust Control Invariance for Linear Discrete Time Systems, *in* Proceedings of the 44th IEEE Conference on Decision and Control, IEEE, 975–980.
- Rawlings, J. dan Mayne, D., 1999, *Model Predictive Control Theory and Design*, Nob Hill Publishing, California.
- Rawlings, J. dan Mayne, D., 2012, *Postface to “Model Predictive Control: Theory and Design”*, Nob Hill Publishing, California.
- Scattolini, R., 2009, Architectures for Distributed and Hierarchical Model Predictive Control – A Review, *Journal of process control* 19(5), 723–731.
- Siljak, D. D., 1991, *Decentralized Control of Complex Systems*, Courier Corporation, California.
- Sontag, E. D., 1989, A ‘Universal’Construction of Artsteins Theorem on Nonlinear Stabilization, *Systems & Control Letters* 13(2), 117–123.
- Stewart, B. T., Rawlings, J. B. dan Wright, S. J., 2010, Hierarchical Cooperative Distributed Model Predictive Control, *in* Proceedings of the 2010 American Control Conference, IEEE, 3963–3968.



- Sutrisno, 2012, Kendali Model Prediktif Berbasis Teori Permainan Dinamis Kooperatif, *Tesis*, Prodi Magister Matematika, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada.
- Sutrisno, Salmah dan Wijayanti, I. E., 2012, Distributed Model Predictive Control and Application to Irrigation Canal, *in* 2012 IEEE Conference on Control, Systems & Industrial Informatics, IEEE, 126–130.
- Ulum, Z., 2015, Teknik Kendali Model Prediktif Terdistribusi Berbasis Permainan Bargaining, *Tesis*, Prodi Magister Matematika, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada.
- Valencia, F., 2012, Game Theory Based Distributed Model Predictive Control: An Approach to Large-Scale Systems Control, *PhD Thesis*, Facultad de Minas, Universidad Nacional de Colombia.
- Valencia, F., Espinosa, J. J., De Schutter, B. dan Staňková, K., 2011, Feasible-Cooperation Distributed Model Predictive Control Scheme Based on Game Theory, *IFAC Proceedings* 44(1), 386–391.
- Valencia, F., López, J. D., Patino, J. A. dan Espinosa, J. J., 2014, Bargaining Game Based Distributed MPC, *in* Distributed Model Predictive Control Made Easy, Springer, 41–56.
- Van Overloop, P.-J., 2006, Model Predictive Control on Open Water Systems, *PhD Thesis*, Werktuigkundig ingenieur, Delft University of Technology.
- Venkat, A. N., 2006, Distributed Model Predictive Control: Theory and Applications, *PhD Thesis*, University of Wisconsin–Madison.
- Vermillion, C., Menezes, A. dan Kolmanovsky, I., 2014, Stable Hierarchical Model Predictive Control Using An Inner Loop Reference Model and λ -Contractive Terminal Constraint Sets, *Automatica* 50(1), 92–99.
- Wang, W. dan Koeln, J. P., 2022, Tube-Based Robust MPC for Two-Timescale Systems Using Reduced-Order Models, *IEEE Control Systems Letters* 7, 799–804.



Zhang, X., 2018, Hierarchical and Multilayer Control Structures Based on MPC for Large-Scale Systems., *PhD Thesis*, Dipartimento Di Elettronica, Informazione E Bioingeneria, Doctoral Programme In Information Technology, Politecnico Di Milano.

Zhang, X., Jiang, W., Yu, S., Xu, X. dan Li, Z., 2019, A Dual-Level Model Predictive Control Scheme for Multi-Timescale Dynamical Systems—Extended Version *arXiv:1906.07334*.